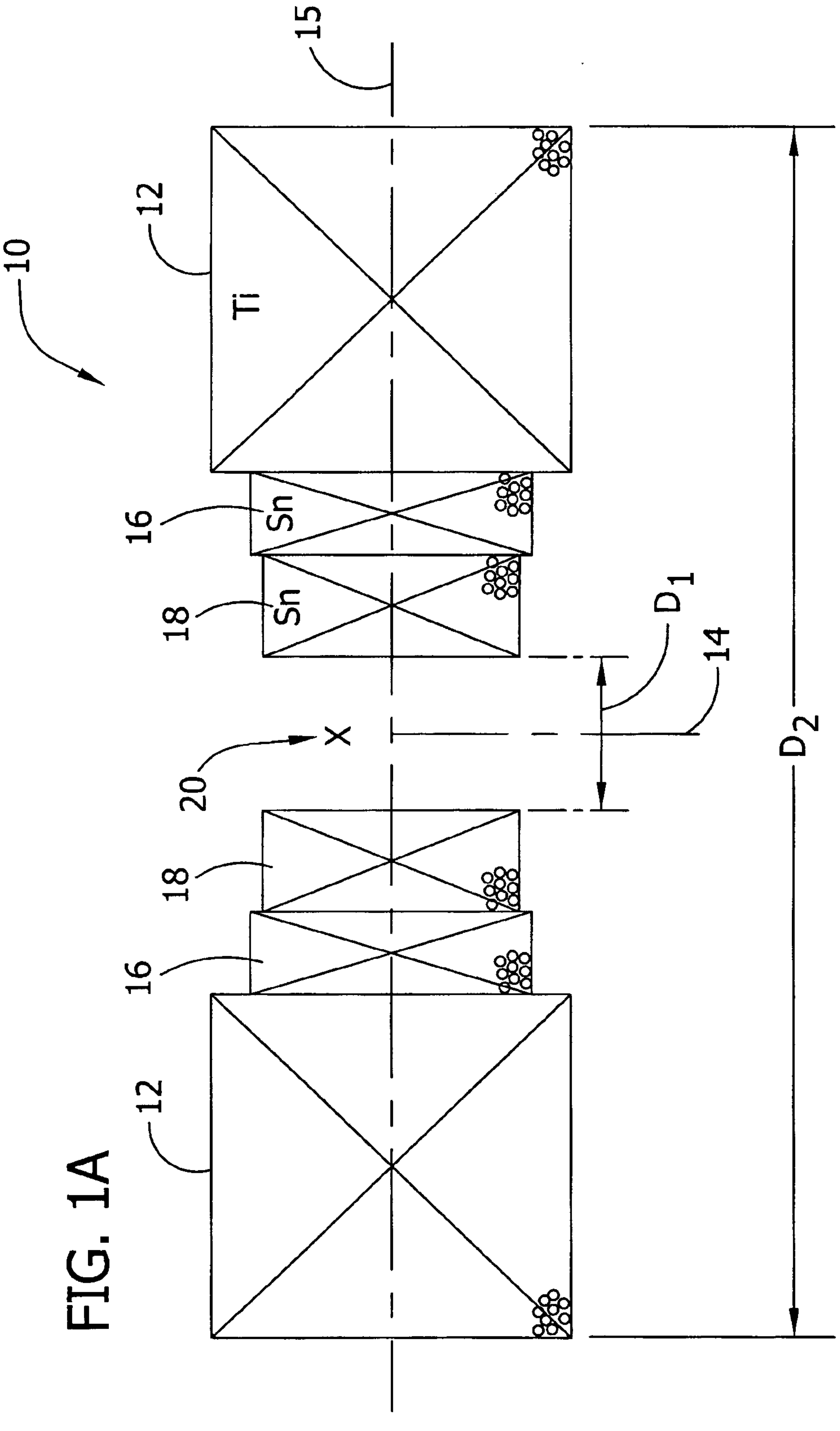
FIG. 1A



25

		C1	C2	C3
		First Coil	Second Coil	Third Coil
R1	a1(m)	0.0520	0.0350	0.0150
R2	a2(m)	0.1200	0.0520	0.0350
R3	H(m)	0.0700	0.0550	0.0500
R4	I(A)	0.500E+03	0.500E+03	0.500E+03
R5	nt(i)	1904.0	374.0	300.0
R6	J(A/m^2)	0.200E+09	0.200E+09	0.150E+09
R7	A*m	.514E+06	.511E+05	.236E+05
R8	Bo	6.677	2.295	2.682
R9	b(a1)	7.484	9.879	12,052
R10	b(a2)	-2.450	7.484	9.789
R11	Sh(Mpa)	64.543	97.355	68.224
R12	Itot(A)	0.952E+06	0.187E+06	0.150E+06

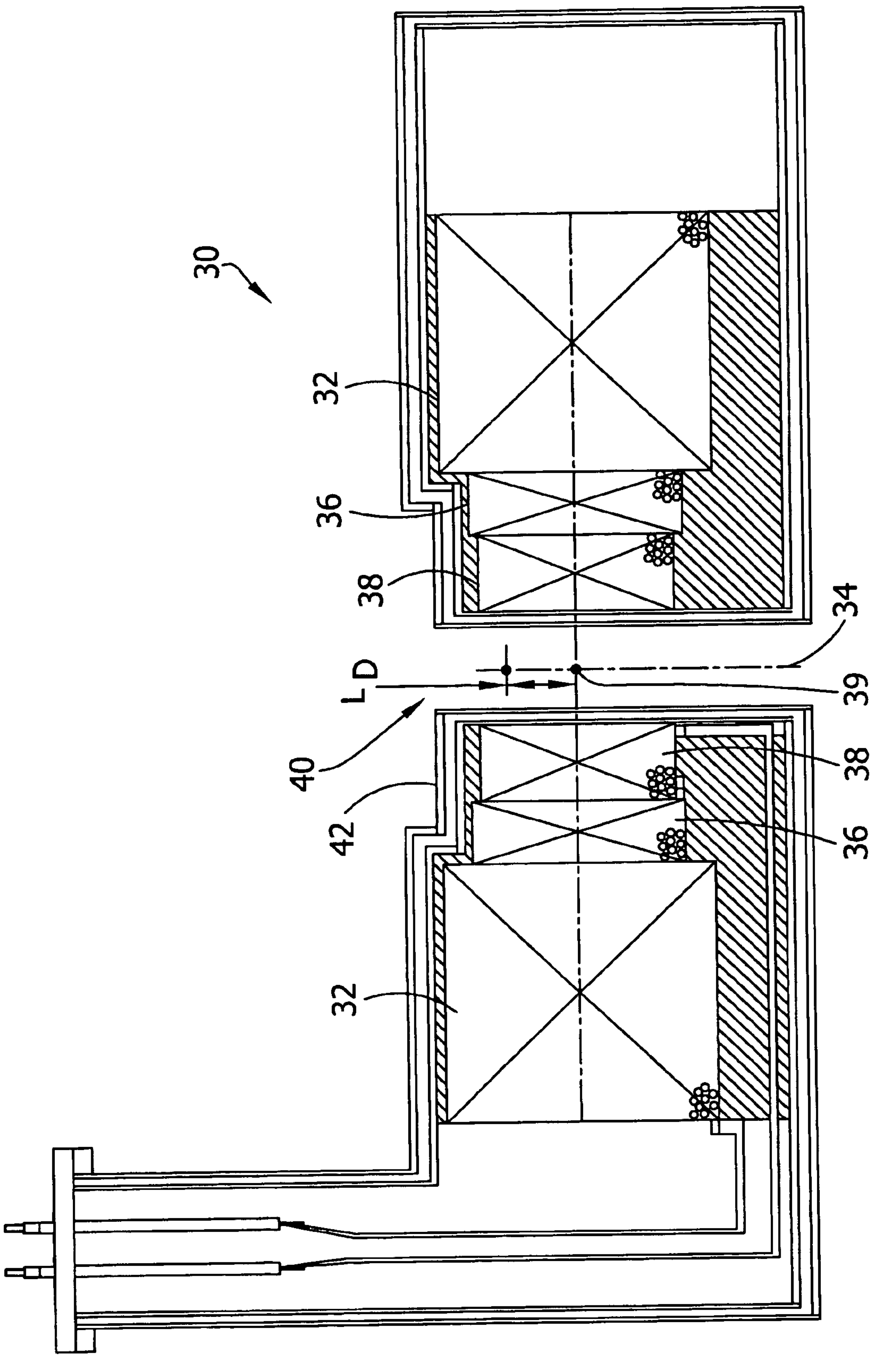
FIG. 1B

27

	C1	C2	C3	C4	C5	C6	C7	C8	C9
R1	Z(m)	R(m)	Br(T)	Bz(T)	Bt(T)	dBz/dr(T/m)	dBz/dz(T/m)	Fz(N/m3)	Fr(N/m3
R2	0.0150	0.0000	0.0000	10.8441	10.8441	0.000	-107.921	-0.931E+09	0.322E+01
R3	0.0150	0.0025	0.1350	10.8550	10.8558	8.712	-108.154	-0.933E+09	0.811E+08
R4	0.0150	0.0050	0.2709	10.8879	10.8913	17.700	-108.793	-0.939E+09	0.165E+09
R5	0.0183	0.0000	0.0000	10.4470	10.4470	0.000	-129.855	-0.108E+10	0.288E+01
R6	0.0183	0.0025	0.1627	10.4566	10.4579	7.713	-130.400	-0.108E+10	0.726E+08
R7	0.0183	0.0050	0.3273	10.4860	10.4911	15.852	-132.001	-0.110E+10	0.150E+09
R8	0.0217	0.0000	0.0000	9.9827	9.9827	0.000	-147.861	-0.117E+10	0.224E+01
R9	0.0217	0.0025	0.1854	9.9899	9.9916	5.758	-148.771	-0.118E+10	0.586E+08
R10	0.0217	0.0050	0.3743	10.0118	10.0188	11.906	-151.582	-0.120E+10	0.118E+09
R11	0.0250	0.0000	0.0000	9.4702	9.4702	0.000	-159.543	-0.120E+10	0.141E+01
R12	0.0250	0.0025	0.2001	9.4739	9.4760	3.008	-160.635	-0.121E+10	0.355E+08
R13	0.0250	0.0050	0.4044	9.4852	9.4938	6.030	-164.076	-0.124E+10	0.723E+08
R14	0.0283	0.0000	0.0000	8.9274	8.9274	0.000	-163.783	-0.116E+10	0.602E+00
R15	0.0283	0.0025	0.2053	8.9277	8.9300	0.199	-164.710	-0.117E+10	0.149E+08
R16	0.0283	0.0050	0.4142	8.9281	8.9377	0.028	-167.576	-0.119E+10	0.282E+08
R17	0.0317	0.0000	0.0000	8.3836	8.3836	0.000	-161.581	-0.108E+10	0.473E-01
R18	0.0317	0.0025	0.2023	8.3814	8.3838	-1.820	-162.155	-0.108E+10	0.946E+06
R19	0.0317	0.0050	0.4068	8.3741	8.3840	-4.060	-163.847	-0.109E+10	-0.322E+06
R20	0.0350	0.0000	0.0000	7.8568	7.8568	0.000	-155.227	-0.971E+9	-0.238E+00
R21	0.0350	0.0025	0.1942	7.8532	7.8556	-2.898	-155.482	-0.972E+9	-0.611E+07
R22	0.0350	0.0050	0.3893	7.8421	7.8518	-6.076	-156.216	-0.977E+9	-0.137E+08

FIG. 1C

FIG. 2



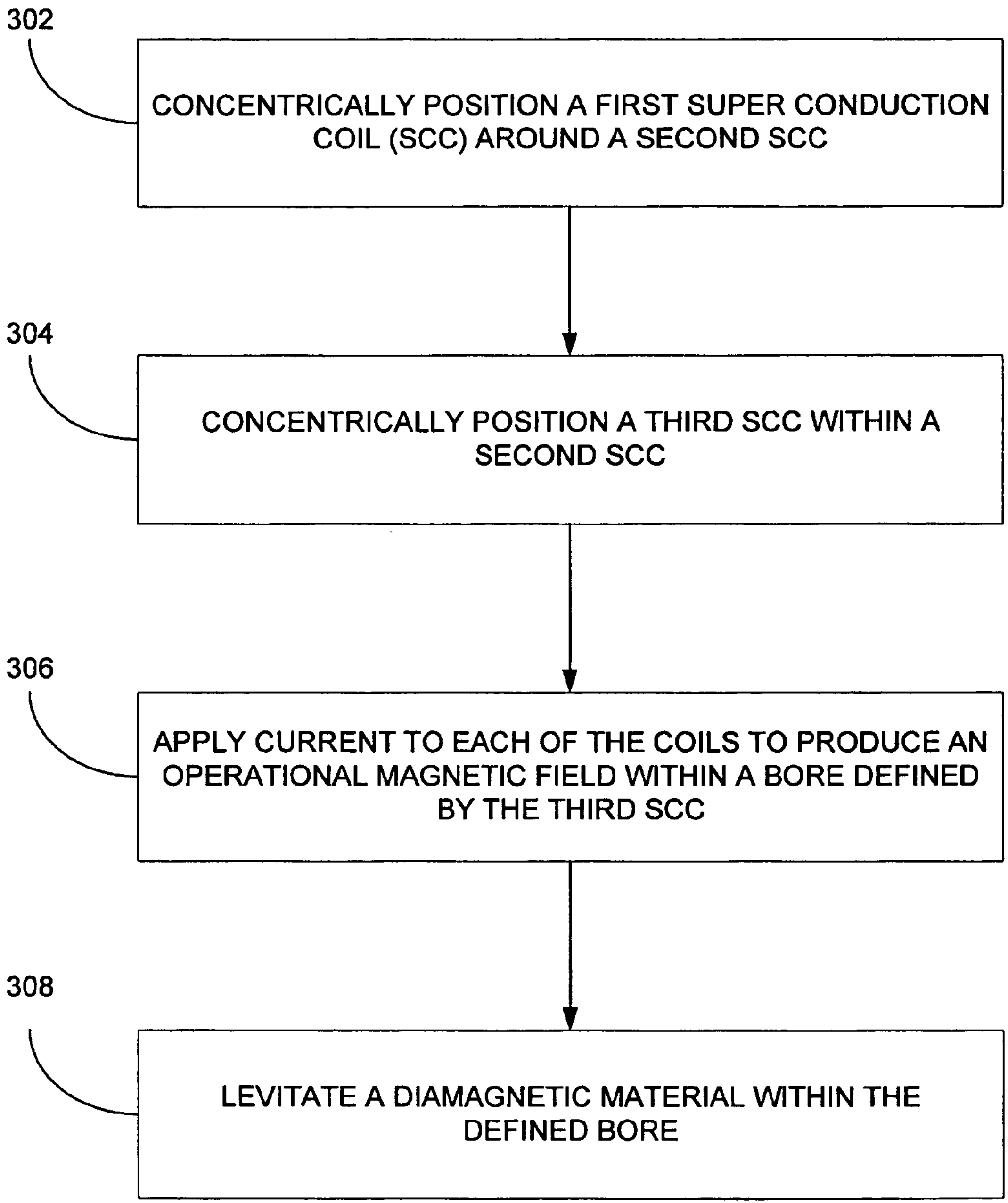

302
CONCENTRICALLY POSITION A FIRST SUPER CONDUCTION COIL (SCC) AROUND A SECOND SCC
304
CONCENTRICALLY POSITION A THIRD SCC WITHIN A SECOND SCC
306
APPLY CURRENT TO EACH OF THE COILS TO PRODUCE AN OPERATIONAL MAGNETIC FIELD WITHIN A BORE DEFINED BY THE THIRD SCC
308
LEVITATE A DIAMAGNETIC MATERIAL WITHIN THE DEFINED BORE

FIG. 3